



US EPA National Air Toxics Monitoring Program

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Program Background

- **Guided by a steering committee of STAPPA/ALAPCO, EPA and state senior officials, the National Air Toxics Monitoring Program is in its second year of projects.**
- **PURPOSE:** To leverage all available resources for design of a national toxics monitoring network.
- **FUNDING:** \$3 million has been allocated each year so far – fy2000, fy2001, fy2002.



FY2000 Projects:

- **Four large projects:**
 - **Providence, Detroit, Tampa, and Seattle**
- **Six smaller city/rural projects:**
 - **Barcelenta and San Juan Puerto Rico**
 - **Keeney Knob, West Virginia (mountainous area)**
 - **Rio Rancho NM**
 - **Cedar Rapids, IA**
 - **Grand Junction, CO**
 - **San Jacinto CA**



Project Completions:

- **January/February 2002: Tampa, Seattle, Cedar Rapids, and San Jacinto)**
- **Second quarter 2002: Detroit, Grand Junction, and Providence**
- **Third quarter 2002: Rio Rancho NM, Puerto Rico, and Keeney Knob, WV**
- **Equipment/procurement issues caused delays**



FY2001 Projects

- **Guidance issued February 2001 – allowed more flexibility for monitoring projects – approximately 30 states/locals received funding.**
- **Data will roll into the study in CY2003.**



FY2002 Projects – Guidance issued March 1, 2002

- **Ten initial trends sites being created with limited funds –
Located at PM2.5 speciation sites and including
aethalometers.**
- **Complete LADC0 data analysis of fy2000 pilot projects,
final report due spring 2003**
- **40 states/locals to receive \$40k each to augment their
existing toxics monitoring**
- **Seattle, Tampa, and Keeney Knob receive additional
funds to complete the study**



FY2002 Trends Selections

- **Roxbury, MA**
- **Providence RI (former pilot site)**
- **NYC**
- **Washington DC**
- **Decatur, GA**
- **Detroit, MI (former pilot site)**
- **Deer Park, TX**
- **St. Louis, MO**
- **Bountiful, UT (outside Salt Lake City)**
- **San Jose, CA (pending)**
- **Seattle, WA (former pilot site)**



FY2003 Projects

- **Funding between 3 and 6.5 million.**
- **More trends sites will be created – data analysis work will give clues to their siting.**
- **Methods development with ORD continuing.**
- **NATA “model to monitor” comparisons to be completed.**
- **Quality assurance for trends network in place.**



FY2002/03 Activities

- **Steering Committee convenes this summer to discuss long range planning for network.**
- **Inter-laboratory comparison study to assess precision and uncertainty**
- **Begin work on technical guidance documents/QA program.**
- **Second Data Analysis Workshop in Chicago fall of 2002 to discuss final pilot data results/recommendations for overall network design.**



Parallel Study on Data Analysis

LADCO conducted a \$500k data analysis project using Battelle to analyze currently operating monitors (300) nationwide for clues on average annual concentrations, spatial and temporal variability.

■ Preliminary results: Most compounds are less than MDL with exception of:

Benzene, acrolein, formaldehyde and chromium compounds



Preliminary Data Analysis Findings

- **The mobile signature is prevalent**
- **The toxics program will be a combination of a minimal national trends network and a broader program that allows state/local agencies freedom to address their issues (hot spots, environmental justice, etc.)**
- **The national network will be planned in conjunction with the overall National Monitoring Strategy.**